



- 1 Motor fan directly coupled to the drive shaft. Upper part and fan with a Special Aerodynamic profile
- 2 Drift eliminators to guarantee maximum efficiency of droplet separation from the airflow produced by the fan
- 3 Water distribution system in PVC, anti occlusion tangential spray nozzles for a full cone spurt
- 4 Tower casing with walls consisting of 22 mm thick polyester resin sandwich panels reinforced with fibreglass and coloured with paste and gel-coat for UV-protection
- 5 Manhole(s) in fiberglass with a fixing frame in galvanized steel, for easy inspection or access to the inside of the tower
- 6 FILL PACK (or heat exchange surface) consisting of self-extinguishing and non-rotting PVC sheets – internal distance 20mm.

The models of the "PME – E Super Silent" series, designed for the evaporative cooling of clean water of normal physical and chemical composition, with a temperature no greater than 55°C, very low noise level, consist of:

**TOWER CASING** constructed with a load bearing structure in steel profiles, hot-dip galvanized after fabrication and walls consisting of 22 mm thick polyester resin sandwich panels reinforced with fibreglass and coloured with paste and gel-coat for UV-protection.

The seal between the load bearing structure and the panels is guaranteed by a special bituminous sealing gasket.

The droplet eliminator panels with supports in steel, hot-dip galvanized after fabrication are installed in the upper part.

The tower casing is equipped with manhole(s) in fiberglass with a fixing frame in galvanized steel, for easy inspection or access to the inside of the tower.

**PERIMETER FRAME WITH FILLING MATERIAL SUPPORT** in high thickness steel, hot-dip galvanized after fabrication, placed at the base of the tower body and fixed to it with the function of rigidifying the entire structure.

Hot-dip galvanized metal profiles are firmly fixed to the frame, with wires made in hot galvanized steel, with the purpose of supporting the fill pack.

**UPPER CAP** with integrated fan cylinder with a Special Aerodynamic profile entirely in fibreglass reinforced polyester resin with and coloured with gel-coat for UV-protection: it is simply jointed to the tower main casing and has the function of conveying the air expelled via the axial fan(s). The protection of the motor-fan(s) sets are provided by a guard(s) in stainless steel.

**FILL PACK** (or heat exchange surface) consisting of self-extinguishing and non-rotting PVC sheets, thermoformed under vacuum and subsequently glued together to obtain blocks, kind K19 suitable for industrial water.

**WATER DISTRIBUTION SYSTEM** made from UNI-PN 10 pipes and connectors in PVC, and with full cone spray nozzles in polypropylene obtained by injection moulding from moulds that are the property of, and exclusive to MITA.

The water distribution system is completed by an accessory unit including a manometer for controlling input water pressure and a bleed-off tap.

**DROPLETS ELIMINATOR** consisting of sheets in self-extinguishing and non-rotting PVC, thermoformed under vacuum and subsequently glued one to the other to obtain panels of such shape and size as to guarantee maximum efficiency of droplet separation from the airflow produced by the fan.

**AXIAL FAN SYSTEM** consisting of:

- one or more supports in steel, hot-dip galvanized after fabrication;
- one or more propeller fans in fibreglass with Special Aerodynamic profile, direction-adjustable when at rest, jointed by a central hub directly coupled to the drive shaft;
- one or more sealed execution electric motors (IP 55), class F insulation, with tropicalized winding, multi-voltage and multi-frequency, very low rpm (375 rpm).

In the version with basin incorporated the following are included:

**LOWER SUPPORT STRUCTURE** in steel profiles, hot-dip galvanized after fabrication.

**LOUVERS** in fibre glass reinforced polyester resin, of exclusive MITA design.

**COOLED WATER COLLECTING BASIN** entirely in fibreglass reinforced polyester resin, and complete with outlet, drain, make-up and overflow connections.

Supply of the tower is limited to the parts listed above. So building and electrical works, pumps, collectors external to the tower, valves, hoisting gear and any scaffolding and labour are therefore excluded.

Any accessories and/or constructional variants are available on request.

NOTE: M.I.T.A. S.r.l. may carry out constructional improvements without notice.

**PME E Super Silent KE2W00001ZnR00**